



26 Jan 1938

## The Missouri Miner, January 26, 1938

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# THE MISSOURI MINER

MISSOURI SCHOOL OF MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, JANUARY 26, 1938

NUMBER 17

## Dick Shelton To Play For Military Ball

**HONORARY BATTALION MAJOR TO BE INSTALLED AT GALA AFFAIR**

February fifth of this year brings to the campus the occasion which ranks second only to St. Pat's in respect to pomp and spectacle. The newly formed Society of American Military Engineers is presenting the most striking ball ever seen on the campus. For those who love smooth dancing to grand music, the organization has contracted Dick Shelton, well known young maestro himself but recently a student of U. of Illinois.

Deviating from local custom, and adding a bit more color to the affair will be the installation of the Honary Battalion Major, in place of the Queen. Special attire has been arranged, and as a tip, the ceremony preceeding this will be nothing short of surprising to all of you. All this, midst a background of unusual and outstanding decorations gives promise of eclipsing all other social events of the current season.

To those of you who might be hesitant due to lack of formal attire goes the message that basic uniforms will be encouraged, and that there will be a good many students present in them. This should make the attendance of many of you more possible, and you can rest assured that if you miss it you will find yourself on the outside of all conversation for quite some time.

So again the time has come when spurs and sabers reign over the floor of the gym, to speak nothing of the many beautiful dates that will grace the event. The date—February fifth. The time—ten 'till two. The orchestra—Dick Shelton. The admission—One dollar and fifty cents. The results—grand!

M.S.M.

## Photographic Club Explains Purpose

Although several articles about the Photographic Club have appeared in this paper before, very few students know just what this club is doing, what it has to offer its members, what it has for its goal, and what it demands of its members.

The Photographic Club, a new organization on the campus, was organized during the past semester by a number of students interested in photography. One of its purposes is to offer to its members at minimum cost, facilities for developing and enlarging photographs, in addition to well-supervised training in this developing and enlarging. The club has already adopted a constitution and elected officers. The officers are: W. E. Duncan, president; J. P. Farris, vice-president; C. R. Maise, secretary; S. Gayer, treasurer, and C. S. Weber, custodian of equipment. The total active membership at present is

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## NEW EQUIPMENT FOR M. E. AND O. D.

The Department of Metallurgical Engineering and Ore Dressing has recently borrowed a Hilger prism spectrograph from the Salt Lake City Station of the United States Bureau of Mines. This instrument is to be used in connection with a quantitative analysis problem. It is a small instrument and on account of its low disprsn and large light-gathering power is very rapid.

M.S.M.

## Butler Presents Paper Before Road Builders

**SPEAKS ON MISSOURI ROADS AT CLEVELAND CONVENTION**

Professor J. B. Butler, head of the C. E. Department, was in attendance at the American Road Builders' Association, 1938 Convention and Road Show at Cleveland, two days, Wednesday and Thursday, Jan. 19 and 20.

On the 19th, Prof. Butler attended the County Highway Officials' Session. At the Educational Session on the 20th, he was re-elected to serve his third year as vice-president of the Board of Directors, Educational Division for the Central District. In the discussion that followed the report of the Committee on Cooperation Between Educators and Road Builders, Prof. Butler reported on student prizes and outside lecturers furnished by the Mo. Asphalt Association as well as summer and permanent employment with contractors.

At the Planning Session Thursday afternoon, at which he was given a committee appointment with the planning division, he gave his report, County Highway Planning and Mapping in Missouri, a digest of which follows:

Although primary, secondary and supplementary roads of Mo. are now satisfactory, "approximately 65% of Missouri farmers are still located on dirt roads which are impassable at various times of the year." The report is devoted largely to a discussion of the ways and means of helping secure a sound, progressive program leading to the construction and maintenance in

Continued on page three

M.S.M.

## Hospital News

In spite of the fact that many students spent part of the past week at home, the hospital reports one of the largest sick lists this year. There were no serious illnesses, mild cases of tonsilitis and influenza accounting for a total of twelve men. Those who spent one or two days each in the hospital were: Dominie Ferrero, Andy Andrae, Edward Heiss, Wm. Gaylor, Roland Owens, Norman Blair, Carl Lintner, James McCaskill, Don Falkingham, William Webb, and William Volkmar.

Joseph Rakaskas, who has been confined for the past two weeks with the influenza, was expected to be released in time to begin the second semester.

## Dr. Ravold, '79, To Speak Here Friday, at 11:00

**EMINENT MEDICAL SCIENTIST TO RELATE EXPERIENCES AT M.S.M. IN '75 - '77**

Dr. Amand Ravold, ex-'79, eminent medical scientist, is going to lecture Jan. 28, 11:00 A. M., in Parker Auditorium at the mass meeting. We are, indeed, fortunate in having so prominent a man on our campus. He is one of the outstanding men of all times in medical science. His contributions to the profession have been many.

Dr. Ravold is one of the few men now living who have studied with Louis Pasteur, famous, world-known French scientist. Dr. Ravold brought bacteriology to St. Louis after studying in France with Pasteur. It was by his suggestion that the first class in bacteriology was held for the young doctors in St. Louis. After another person taught the class the first year, Dr. Ravold became the instructor. He is the father of the St. Louis Medical Library, and was president of the Medical Library, and was president of the Medical Library Association in 1926 when the \$100,000 Medical Library Building at Lindell and Vandeventer was put up. In this building are four bronze plaques which have been awarded eminent medical men. One of these was awarded Dr. Ravold in 1931 which was 50 yeears after his graduation from the old St. Louis Medical College.

It was during the time Dr. Ravold was a student on this campus, in 1875 to 1877, that he received his inspiration for his whole life of scientific work. Most responsible for this inspiration were teachers in the first faculty: viz., Major Emerson, Col. Abert, and Emerson's sister who was a very fine oil painter.

Though Dr. Ravold is becoming aged, he is still very actively engaged in research. Just now his

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## STUDENT COUNCIL MEETS

The Student Council held a short special meeting in the club room, Tuesday night, Jan. 25. All standing committees except the Flag committee were dissolved. New business to be brought up at the next regular meeting was presented. This was done to give the members time to consider the new business and make any necessary plans.

M.S.M.

## Electronics Engineer Talks Before A.I.E.E.

**NARRATES APPLICATIONS OF VACUUM TUBES TO INDUSTRY**

A glimpse into the miracles of modern science as applied to industry was given to the local chapter of the American Institute of Electrical Engineers last Thursday night by T. E. Johntz, electronics engineer for General Electric. A sorter that will separate a whole carload of beans, one by one, into containers of good and bad beans, in less than twenty-four hours, and devices that will automatically control the lighting of school rooms or switching on of airplane beacons, were among the more interesting devices explained by Mr. Johntz.

At the beginning of his lecture, Mr. Johntz explained the principles upon which the simple vacuum tube is based. Then he told how specialized types of tubes could be developed by the addition of other parts to the two electrode tube.

Another interesting part of the lecture was the list of unusual names the General Electric engineers apply to their tubes. A two electrode rectifier tube is called a kinetron. The addition of a grid to the rectifier tube makes it a pliatron. When mercury vapor is added to the rectifier tube, it becomes a thenatron. The addition of both a grid and mercury vapor make a tharित्रon. A heavy duty

Continued on page six

## Jackling New President of A. I. M. M. E.

**TO BE INAUGURATED FEB. 16, AT ANNUAL DINNER IN NEW YORK**

D. C. Jackling, noted M. S. M. alumnus will be inaugurated as president for 1938 at the annual dinner on February 16th of the American Institute of Mining and Metallurgical Engineers in New York City. The dinner will be the main feature of the 148th meeting of the A. I. M. E., which will be held on February 14-17.

M. S. M. men will take a prominent part in the proceedings, and besides Mr. Jackling's inauguration, there will be the presentation of several papers by the local Bureau of Mines staff, Metallurgy Department faculty, and alumni.

Papers to be presented by the Rolla Bureau of Mines staff are: "Further Experiments in the Use of Positive Iod. Reagents in Flotation", by J. Bruce Clemmer, As soc. Metallurgist, and "Use of the Coercimeter in Grinding Tests" by Fred D. DeVaney and Will H. Coghill, Assoc. Metallurgist and Supervising Eng., respectively, Ore Dressing Section (T. P. 862; Min. Tech., Jan.)

The Met. Department faculty will contribute "Adherence of Zinc Deposits to Aluminum Cathodes" by H. R. Hanley and Charles Y. Clayton, respectively, Prof. Met. and Prof. Met. Eng. and Ore Dressing.

Articles that alumni will present are: "Convergence of Roof and Floor in the Mine of the U. S. Potash Co.", by C. A. Pierce, '16, Gen'l Supt., U. S. Potash Co., and "Fifteen Years of Bituminous Coal Mine Safety Work", by Eugene McAuliffe, '27, Pres., Union Pacific Coal Co.

The meeting will encompass a broad variety of features; in addition to the annual dinner in the Waldorf-Astoria Hotel, the annual business meeting, and the regularly scheduled technical sessions for Institute members, there has been arranged special programs for the ladies and student associates of the A. I. M. E. Should any M. S. M. student associate be fortunate enough to be present, he would be in

Continued on page six

M.S.M.

## FALL OF 1938 SENIOR MET TRIP

For several weeks there has been posted on the bulletin board in the Metallurgy Building, a notice of the trip which the senior mets of 1939 will take next autumn from Oct. 16-22. The 1939 senior mets have a rare treat in the offing, for high point of their trip will be a visit to the National Metal Congress and Exposition at Detroit, Michigan, where the Institute of Metals and Iron and Steel Institute of England, will also be represented. The presence of the London friends of the A. I. M. E. at the Congress will be an added feature to an Exposition that yearly never fails to be highly interesting and instructive to all who attend.

## When? What? Where?

WEDNESDAY, JAN. 26

St. Pat's Board, 7:00 p. m. .... Club Room  
Ira Remsen, 7:30 p. m. .... Chem. Bldg.

THURSDAY, JAN. 27

S. A. M. E., 7:30 p. m. .... Phys. Lecture Room

FRIDAY, JAN. 28

Mass Meeting, 11:00 a. m. .... Aud.  
Dr. Amand Ravold, Ex-'79.  
Rifle Squad, 11:00 a. m. .... Gym  
Basketball—Warrensburg, HERE  
Kappa Alpha Dance

SATURDAY, JAN. 29

Roosevelt Birthday Ball .... Gym  
(Sponsored by St. Pat's Board)

TUESDAY, FEB. 1

Sigma Xi, 7:30 p. m. .... Aud.  
Miner Board, 7:00 p. m. .... Power Plants  
Basketball—Springfield—HERE

WEDNESDAY, FEB. 2

Alpha Chi Sigma, 7:00 p. m. .... Chem. Bldg.  
Student Council, 7:30 p. m. .... Club Room



## THE MISSOURI MINER



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FACULTY ADVISER ..... DR. J. W. BARLEY

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On the 19th of January the Student Council attempted to have a mass meeting. Thirty minutes past the hour found only about a half a hundred students had shown up. Naturally no meeting was held. Since the time of the "unattended" mass meeting, special note has been made of the object of student gripes. A year ago we all enthusiastically planned the duties and abilities of our Student Council. We saw it as a medium of expression for the individual needs of the student. Here we could voice the student opinion relative to campus problems. It was the answer to close the gap between the faculty and student body. But . . . we apparently did not want what we felt we needed so badly. The refusal to attend mass meeting can only be taken as student expression of "being too concerned other ways" to look after their own rights and privileges. We have willingly turned back to the faculty the right to "take care" of us—We are not capable.

There are still a few of the students who want to carry on and realize the initial goal of the Student Council. They have faith in the student body now—just as they had a year ago. In the next few weeks a mass meeting will be held—It will be a chance to take hold again—or forever end the thought of the MINERS being able to "Take Care of Their Own Affairs."

## YOU KNOW THEM TOO

By Ray E. Vaughn

In looking over the Independents, the sophomore class, a cadet corporal in the R. O. T. C., a member of Theta Tau, and played basketball. Last year he was secretary of the junior class, a member of the Officers Club, a member of the A. S. C. E., and a Student Assistant in the C. E. Department. This year he is vice regent of Theta Tau, secretary of the Independents, an alternate member of the Student Council, a member of the S.A.M.E. and a Cadet Captain in the R.O.T.C. Prange can be expected to attain more than ordinary success in the business world in an executive, construction, research, or designing position.



Prange went out for basketball. The next year he was treasurer of position.

## Gleanings From Our Exchanges

By Carl H. Cotterill

"Heil, Shulz! Heil!" shouted little Calvin Blackstone, sophomore, as he stood majestically posed, Hitler fashion, on the auditorium steps saluting Herr Harry Shutz, senior, last week.

"Heil!" came the answer bellowing and echoing over the campus. And then came the Heil. Mrs. F. J. Heil, secretary to the president, stepped from her office to see who could be paging her so boisterously, saw that nothing more was happening than "college boy play."

"I thought they'd get Heil for that," was a bystander's comment. —Capaha Arrow.

Little Jack Horner sat in corner With crib notes in his lap—  
He opened his book  
And took a look,  
Now he's a Phi Beta Kappa.

At the Florida State College, in Tallahassee, freshmen, for the first time in the history of the College, "will be allowed to have dates with men during the week without special permission." Other privileges allow them "to keep their lights on until 11 o'clock on week nights and to accept rides to and from town with friends or members of the faculty at any time without signing up."

A college student is like a kerosene lamp . . . not very bright . . . smokes a lot . . . often goes out at night . . . and usually gets turned down.—Oredigger.

The moon is full—  
I stop and park,  
The stars are bright—  
The night is dark,  
The gentle breeze  
Does softly moan,  
What a night—  
To be alone!

A new oxygen mask to protect mental workers from fatigue caused by thinking was described to the American Psychological Association by Dr. Arthur G. Bills of the University of Cincinnati.

Delivering to the brethern a combination of about 50 per cent pure oxygen mixed with air, the mask's use cuts in half the number of pauses per minute that come to persons doing brain work. These pauses are the result of mental fatigue—the brain taking a short rest. The new oxygen mask is the final step in a series of experiments which appear to prove the theory that fatigue is not due so much to the brain becoming "tired" as to failure of the blood to supply all the oxygen the brain wanted. Dr. Bills has been testing this idea for several years.—(ACP.)

Me love has flew  
Her done me dirt  
How were I to know  
Her were a flirt  
To those in love  
Let I forbid  
Lest they be done  
Like I was did.

And Then there is the one about the butcher who backed into the meat grinder and got a little behind in his orders.

—Oredigger.

According to the Homecoming Issue of the Tulane Hullabaloo the Big Apple has gone sour. The sun of the dance fad that recently swept the country is setting. College students are returning to the slower, smoother steps. They say that the Lindy-hop and Suzie-Q make the dancers too hot and tant truckin' wears out the soles of their shoes.—University News.

## Levels of Learning:

Freshman—"I don't know."  
Sophomore—"I am not prepared."  
Junior—"I can't remember just now."

Senior—"I don't believe I can add anything to that which has already been said."

For almost two years, the anti-militarist group of the University of Texas has been fighting to prevent the installation of an R.O.T.C. unit at that school . . . "There are already enough such units in various schools throughout the country to serve any probable need for peace-time military training," says the Baylor University Daily Lariat.

The Southwest Standard lists each week the names of students whose birthdays come that week.

When a fellow holds your hand, it doesn't necessarily mean that he is bashful. He may be only taking your pulse to see how he is getting along.

He grabbed the dame, did that Miner lad,  
And said as he started kissin'

"It's many a scuttle o' suds I've had  
But not from a mug like this'n."

—Oredigger

We reprint a copy of the challenge from the Law School Students of Washington U. to the Engineers of the same place.

"It is gratifying to note that in spite of the crudeness of the Gas House gang, they are still attentive to the dictates of the social scale in awaiting a challenge from the top-notch of the social ladder, namely, the barristers. We are glad that, in spite of their opprobrious statements to the press, they still feel that they are the moronic machinists at the lowest level of the social strata.

"Consequently, in the true spirit of democracy, we, the true spirit of democracy, we, the cultural leaders of the campus, do challenge these Roistering Roughnecks to a football game, the details of which will be arranged by a committee of the Gas House Gangsters and some January Hall Gentlemen at a later date. This committee will meet in the center of the Quad range after the attorneys have taken full precautions against the

possibilities of contracting dangerous diseases carried by germs in the garments and on the persons of the Gangster Committee.

We ask but little. We merely desire that the Ditch-Diggers change their shirts for the game so that the odor of grease and filth will not so pervade the air that the delicate nostrils of the spectators will be endangered.

The Student body of Washington University is invited to a Victory celebration that will be held at January Hall immediately following the game. Engineers will be admitted only after they get permission from the Patrol Board.

"With the hope of the eventual extermination of Engineers, we remain,

Attorneys-AT-LAW."

—M.S.M.

## THE U. S. S. YANKEE

The U. S. S. Yankee, of the old steam-and-sail navy lies one mile inland in a valley surrounded by hills 100 to 200 feet high at Arica in Chile, South America. This ship was carried there by a huge tidal wave several decades ago. Parts of her boilers and propulsion machinery are still standing intact. The boiler plaque gives her name and date of commissioning. This same tidal wave swept a cement fort and the entire face of a 200 foot cliff containing it into the sea, where it disappeared from view. In the past 25 years, an island containing sections of the fort has been raised to the surface of Arica Bay. Prior to this tidal wave the 75 mile strip of coast which it hit was a luxuriantly green mass of foliage and vegetation akin to our own temperate zone. Since that time, however, it has only rained twice, the last time over thirty years ago, and the land is arid even to the tops of the mountains.

—M.S.M.

A widow, dying and arriving at the pearly gates, asked to see her husband, who had preceded her.

"What's his name?" asked St. Peter.

"Joe Smith."

"We must have better identification that. How about his last words? We classify new arrivals by their last words on earth."

"Well, just before he died Joe told me he would turn over in his grave if I ever kissed another man."

"Sure, I know him now," said St. Peter finally, "Up here we call him Whirling Joe."

## Eyes Over The Campus





BUTLER PRESENTS PAPER  
BEFORE ROAD BUILDERS

Continued from page one

the near future of an appropriate system of low-cost all-weather roads to provide direct service connections for each rural family in Missouri.

The coming value of Highway planning maps and data will be their use in pre-planning county highways.

The decentralized set-up, is a handicap to county highway planning. There is in existence in most of Missouri's counties a delegation of local authority for road building from the county to the organized townships or to special road districts and regular (or general) road districts, an almost fatal handicap to the effective administration of desirable county-wide improve-

ment programs, and existing because of certain defeat for political candidates advocating the elimination of these subdivisions headed by their minor political powers.

Without setting an exact line of division, Prof. Butler considers it quite likely that at least 36 rural counties with a population range of about 20,000 can set up and carry on a satisfactory road improvement and maintenance program if an active majority of the voters in the county can be persuaded to forget their petty politics and local jealousies. Probably very few of the remaining rural counties have the financial ability to carry on satisfactory road improvement programs without some type of state aid.

Special and General Assessment Road Districts, existing because of local self-interest in the more wealthy sections of the county

should be eliminated for an economical solution of the problems of good country highway systems. State aid to counties (with state funds to be matched by the counties to be granted on the adoption and continuation of a satisfactory county-wide plan would tend to force centralization of county authority. The counties would receive the benefit of good roads, and easement of tax burden for upkeep of county roads and bridges.

An increase in gasoline tax levy, possible because of the termination of the constitutional limitations of the 2 cent gasoline tax in Nov. 1938, would provide funds needed for county aid. One popular proposal calls for the collection by the state of a 4 cent per gallon gasoline tax with 2 cents devoted to the payment of interest and retirements of bonds and the construction and maintenance and

reconstruction of the primary and secondary system. Of the remaining two cents, one cent will be allocated to the supplementary road program and the other cent will be turned over to the cities for road purposes in lieu of the present tax collected by many of the cities. This one cent turned over to the cities will net more income to them than the present one cent tax which many of them collect.

Prof. Butler concludes; a state aid proposal with the counties matching state funds should make the state highway dollar go far. It would hasten the adoption of the efficient county unit plan of local road administration. Seemingly by no other plan will local road administration be improved appreciably in the near future.

—M.S.M.—

A gentleman—One who doesn't get fresh until the second date.

WONDERINGS OF A  
FRESHMAN MIND

G. N. Frosh

Well, the class treasurer is after us freshmen again what aint paid our duse yet. I bet he don't get no money out of me because I have had a ofal lot of trainin in dodgin bil collectors from the old man who is the best bil dodger in the old home town. I don't see why they don't have a few coarses in somethin practical like bil collector dodgin here insted of somethin useles like chemistry for instanse. From what I herd several profs wood be qualifide to teach it.

Thre is one guy here what has the rite ideer. He is this fello Claridge that tride to burn down the chem bildin the other day. He didn't do so good tho, the only thing he burnt was hisself. I wish somebody wood burn it down because I am getin afade to go into it any more. I saw a burd lite on the roof the other day and when it lit it knocked off seven bricks. When I have a clas in it I try to set next to a winder so if the bildin starts to fal in on me I can get out the winder and not get hurt. A lot of other fellos have the same ideer, tho, and we have an ofal time tring to all of us set next to a winder.

The other day I was askin a girl what looked prety good to me for a date and she said no, she coodn't go to the danse with me becaus her mother woodn't let her stay out until after nine o'clock until she was twelve years old. I shore never thot I wood take to robin the cradel but that was before I come up to this plase.

—M.S.M.—

## ACCIDENTS

The sage claims that safety is a peculiar thing. Dumb animals take to it naturally; it is born and bred into them. But man, supposed to be way up on top in the social order, often gets to thinking that only "sissies" practice safety.

A woodchuck always digs two, three or more holes to his burrow so that, if an enemy comes after him through one, he has a choice of back door exits. Many of us remember back in the horse and buggy days, when you could not whip old Dobbin into crossing a rickety bridge that looked unsafe to him. Yet how blindly we humans often walk right into danger or fail to take proper safety precautions.

It never occurs to us to call an animal a coward or a "sissy" because it takes all those precautions. It makes one wonder sometimes if we are not really the ones to be placed in the "dumb" class.

—M.S.M.—

VALHALLA FOR  
ALL-AMERICANS

(ACP): We've often wondered what happened to All-American football stars who did not enter professional or coaching ranks. Latest word from Hollywood informs us that there is a Valhalla for all good gridiron-gladiators in Cinema City, many former pigskin stars having succeeded in various careers there. Johnny Mack Brown, Alabama; Reb. Russell, Northwestern; Nick Lukats, Notre Dame; John Wayne (Duke Morrison), California; Dale Van Sickle, Florida; and Ward Bond, U. S. C., are actors. Russ Saunders and Jesse Hibbs, also from Southern Cal., are assistant directors at Warners. Paul Schweigler, Washington U. tackle, and Gordon Jones, U. C. L. A., are production assistants. "Cotton" Warburton, Trojan sensation of a few seasons back, is a cutter at MGM, while his team mate guard, Aaron Rosenberg, is an assistant director at 20th Century-Fox. Chet LaRoche, former Dartmouth hero, is president of Young & Rubicam advertising agency, and Art Rush, of West Virginia, is head of the new CBS Coast studios.

# THAT "CHANT" SPELLS "EXPERT"

Lee Riggs, auctioneer, knows tobacco... he explains why experts prefer Luckies 2 to 1

"THIS SEASON," says Mr. Riggs, "I've sold tobacco in Georgia, South Carolina, North Carolina, and Tennessee. More than 7,500,000 pounds, I figure, amounting to about \$2,000,000 in money.

"Time after time I've seen Lucky Strike get the prettiest tobacco in the auction. That's one reason I've smoked Luckies ever since I've been an auctioneer.

"Another reason I and so many other tobacco auctioneers prefer Luckies is because we have to watch out for our throats." (Luckies are extra-easy on the throat because the "Toasting" process takes out certain irritants found in even the finest tobacco.)

Mr. Riggs goes on to say that Luckies are the top cigarette with people who know tobacco. And he is talking facts.

Sworn records show that, among independent tobacco experts, Luckies have twice as many—yes, twice as many exclusive smokers as have all other cigarettes put together.

HAVE YOU HEARD THE CHANT OF THE TOBACCO AUCTIONEER?  
Listen to "Your Hollywood Parade"  
WED., NBC, 9 p. m.  
"Your Hit Parade"  
SAT., CBS, 9 p. m.  
"Your News Parade"  
MON. thru FRI., CBS, 11:15 a. m.  
"Melody Puzzles"  
MON., NBC, 7:00-7:30 p. m.  
(All Central Time)

## LUCKY STRIKE

Sworn Records Show That...

WITH MEN WHO KNOW TOBACCO BEST - IT'S LUCKIES 2 TO 1

Copyright 1938, The American Tobacco Company



## THREE'S A CROWD—OR IS IT?



THREE STARS of the picture "Submarine D-1" whose smiling faces will greet you at the Rollamo Theatre, Wednesday and Thursday, February 2 and 3

## THE COLLEGIATE REVIEW

By Associated Collegiate Press

A mother is attending Hunter College in New York while her two sons, 12 and 14, do the housekeeping. "I get more from my boys than many women do from their girls," she said.

Betty Coed has rhythm, but Joe College has almost twice as much. Tests given at Miami University showed that while the women's score was a bare 39—or eleven points below an average struck on the basis of 10,000 similar studies throughout the United States—men students achieved a rating of 67.

Depauw University's 750 men students foot most of the "date" bills, but despite those expensive items, spend less in a year than the 450 coeds.

Women primp for the same reason that men drink—to bolster up morale, according to a psychology

professor at De Paul University. They dress chiefly to make an impression on their own sex, rather than to win the approval of men, he declared.

## A GREAT SCHOOL

The U. S. Navy represents an investment of many billions of dollars and is considered one of the finest training schools in the United States. Not every one can belong to this honorable organization, for only the cream of the Nation is accepted for enlistment, which makes the service so desirable to young men.

The U. S. Navy prepares men to become specialists in many types of trades and has a fine reputation for the highest type of training. Only those young men who can pass the rigid requirements are accepted for enlistment and are given continuous opportunities for advancement.

Visitor: "How did you get the new son-in-law?"  
Mountaineer: "In the seat of the pants at 300 yards."

## BULOVA

AMERICA'S PREMIER WATCH

Buy yours from

ALLISON, The Jeweler

Sole Distributor for the

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DRINK  
Falstaff Beer

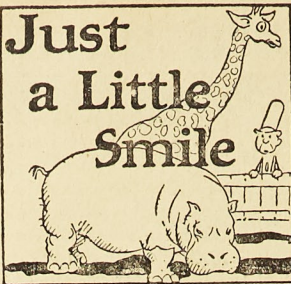
## STANDARD STORE

Men's Elder Shirts and  
Fruit - of - Loom Brand in  
Good Wearing Cloths

STYLED RIGHT

\$1.50 and \$1.65

Whites and Fancies



## VAMPING TOOLS

Cassius left the house after two or three years of stormy married life, and in about a week returned by the back way, pried open a window and crawled in.

Mrs. Jackson, next door, saw Cash come out, bent under the weight of a big washtub, washboard and wringer.

"Cash," Mrs. Jackson called from her back door, "what you takin' dem tools, man?"

"Pawn them," Cash answered. "Dat gal ain't gwine to vamp nobody wiv my weddin' presents."

## He Gets 'Em Up

"That," said the native proudly, pointing out a passer-by, "is Jonathan Bell, native of Squash Center, and the man who has aroused more people than any other man in the country."

"You don't mean to tell me that quiet-looking man is some great communist or radical, do you?" inquired the stranger.

"Not at all," was the reply. "He's a retired alarm-clock manufacturer."

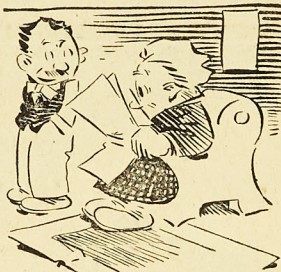
## He's a Specialist

Two men were passing down a street when they saw a fat man, soiled and untidy, sitting on a box, cooling off.

"That's a baker," said one man. "My, what a dirty-looking chap to be a baker," said the other man.

"Oh, it doesn't matter," responded the first one. "He's the fellow that makes the brown bread."

## KNOWS HIS CHAINS



"The chap who came in with daughter was most polite. What is he?"

"A civil engineer."

## Puzzle

Charlie—What has 18 legs and catches flies?

Herb—Now, let me see. I've heard the one about 4 legs, but let me see. Eighteen legs and catches flies. I give up.

Charlie—A baseball team.

## Always Good Advice

"Where are some good places to stop on this trip?" asked the prospective automobile tourist.

"At all railroad crossings," replied the clerk in the touring bureau.—Providence Journal.

## Full Size Contract

"Shine, please, boy," said the six-foot-five soldier to the shoeblack.

The boy looked down at the vast expanse of boot before him. Then: "Bert," he called out to another boy, "gimme an 'and—I've got an army contract!"

## Once in a Lifetime

Magistrate—What induced you to strike your wife?

Husband—Well, your Wuship, she 'ad 'er back to me, the frying pan was handy, and the back door was open, so I thought I'd take me chance.

Sailor: "How many times did you ask your wife to marry you?"

Hen Pecked Chief: "Just once too often."

Mistress: "See here, Jane, I can write my name in the dust on this piano."

Jane: "Ain't it wonderful to be educated."

## BLUE KEY HOLDS MEETING

Wednesday, Jan. 19, the Missouri School of Mines service organization, Blue Key, held a short called meeting to discuss various subjects of importance to the school in general. Chief among the subjects was that of the plaques or certificates which may perhaps be distributed to deserving Freshmen as a reward for their industry in the scholastic and activity fields. The result of this proposed system cannot avoid being a boon towards the encouragement and stimulation of increased activity in our freshmen.

—M.S.M.—

## SUGGESTIONS OF THE RIGHT TYPE OF STUDENT

The personnel manager of the Ohio Finance Company, Columbus, Ohio, recently made the following inquiries in regard to an applicant from Jackson University of Business, Chillicothe, Missouri:

1. Does your record indicate her to have a good character?
2. Was she honest and truthful?
3. Did she graciously accept instructions from others?
4. Did she co-operate willingly at all times and under any circumstances?
5. Was she courteous and tactful in dealing with others and the public?
6. Was she thorough and accurate in her school work?
7. Did she have good health, without any serious illness, during her course with you?

The above questions suggest clearly and forcibly the type of student that makes good in both school and the business world.

—M.S.M.—

## NAVY SPORTS

Athletics of all kinds are encouraged in the Navy for two good reasons. First, it kindles the fire of pleasant rivalry between ships and builds a strong foundation for sound morale. All sports in the Navy are played according to the Amateur Athletic Association Rules. No one in the Navy is allowed to compete with professionals or as professionals. Nearly every man who joins the Navy competes in some branch of athletics each year. Unlimited time and facilities are given to preparation for important events.

—M.S.M.—

Teacher: "Give me a sentence with an object."

Boy: "Teacher, you are very beautiful."

Teacher: "What is the object?"

Boy: "A good mark."

—M.S.M.—

Teacher: "Johnny, can you define nonsense?"

Johnny: "Yes, teacher—An elephant hanging over a cliff with his tail tied to a daisy."

## JIM PIRTLE

Watchmaker and Jeweler

Fine Repair Work a Specialty

41 Years Experience

31 Years in Rolla

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"All Popular Brands Cigarettes, 2 packages for 25c"

We Deliver

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## PROGRAM

## ROLLAMO THEATRE

Sat. and Sun. Matinees 1:30 & 3:30  
Matinee Every Tuesday 2:30

Selected Short Subjects on  
Every Program

Fri., Jan. 28—ONE DAY ONLY

Benefit Show—By the Rolla  
Chamber of Commerce for  
Trachoma Site

LESLIE HOWARD  
BETTE DAVIS  
Olivia DeHAVILLAND

It's LOVE I'm After

Shows 7:00 and 9:00 Adm 10 - 25c

Sat., Jan. 29—One Day Only  
Matinee and Night

Double Feature Program

"THIS WAY PLEASE"

with Mary Livingstone, Buddy  
Rogers, Betty Grable, Ned Sparks,  
Fibber McGee and Molly

Gene Autry in

"GET ALONG  
LITTLE DOGGIES"

and Cartoon "Birdy Day Party"  
"Star Reporter of Hollywood"  
Chap. 7 "Tim Tylers Luck"

Matinees Start 1:30, Adm. 10 & 15c  
1st Night Show 7. Adm. 10c & 25c

Sat., Jan. 29—Midnight Encore  
Show 11:00 P. M.

Brought Back by Popular Demand  
Jean Harlow in

"RECKLESS"

with Wm. Powell and Franchot  
Tone, also

Selected Short Subjects  
Show Starts 11 p. m. Adm. 10 - 25c

Sun. and Mon., Jan. 30 and 31

See Them Together  
STAGE DOOR

KATHARINE GINGER ADOLPHE  
HEPBURN ROGERS MENJOU

With GAIL PATRICK  
Constance Collier, Andrea Leeds,  
Samuel S. Hinds, Lucille Ball  
RKO-RADIO Picture

Tues., Feb. 1, Matinee and Night



Wed. and Thurs., Feb. 2 and 3

## SUBMARINE D-1

PAT O'BRIEN WAYNE MORRIS  
GEORGE BRENT

FRANK McHUGH DORIS WESTON



## THROUGH THE TRANSIT

by homer bru.

The end of the semester may be what the studees waited for, but we are at a loss to see what they did with such free time as they had. Most of the fellows went home to the OAO and returning to register on Monday proved a pain in the neck. Others took the week-end in stride and caught up on their sleep, the lack of which the past week was quite noticeable.

Then there are the youngsters who took in the radio club dance at the gym. And youngsters they were, for only a few of the regular patrons were on hand and if one noisy group of stags hadn't come steaming noisily into the proceedings, the dance would have been like a private party.

They did the big apple, and you would have enjoyed seeing it done by couples that very seldom put on exhibitions of dancing. That office girl, Lucille, was on hand and having quite a good time. So was the leading lady of one of the town's dress shops. Incidentally lady, is it getting serious with you and that hefty snake?

Charming Miss Peterson of the Frisco Peterson's was having a grand time trucking and so was the two playboys, Watts and Kampfer. Some fun, you cuties. The angle house hero, Dowling, was on hand with his darling, but we didn't see Buss McCrae and his faithful. And what has become of Jesse lately?

The Lamba Chi's were noticeable by their absence. What was the matter boys? However my chief scout tells me that they celebrated the completion of the semester.

Add to return to town column: Big Chest Strawhun, Basket star Chick Moreland and little boy Robey.

They tell me that this guy Rothman had the prop of Smith's Col-

lege of High Knowledge running from him the other night. I wonder why? Then too, I heard that the joint on the intersection was the scene of a private beer bust on Thursday night. Who was setting 'em up, boys?

All we want to do is catch some of these good boys some-place they shouldn't be some time. Boy, will we tell on 'em! Its worth your money to hear Ted Stojeba and Jim Aittima talk? to each other in that language that sounds like Polish mixed with Swiss and Russian. And then they tell me at Kiesler sticks his nickles worth in.

Add to the morgue department: Good luck to the fine boys that quit school last week. Many of you had your own reasons for leaving. To those that hit the low grades remember that the professors on this campus don't have hearts. They don't get paid enough.

Our nomination to the best dressed group: Koziatek, that dapper little chap who looks like "Esky" when he is attired in his best.

Von, the Kappa Slug ace lover, had a date with a Harvey sweetheart, we were told by one of his brothers. We don't think its anything but a casual date however. Looks like spring is in the air. Kuhlman and Morrison had their ancient ford out the other day and were traversing up and down the main drag. How are you doing with the chem. prof's daughter, Butch?

Add to our budding romances: Little Hamilton and a high school basket star.

An open letter to Coach Gill: Your personality has put you over with the basketball team. They all like you and so do all the boys who have come in contact with you. However they, and the student body knows that we have the best material in years and yet have won only one game.

Our congratulations to Prof. K. K. who has done a fine job with the freshmen and yet can be popular too. You and your classes are remembered long after others are forgotten. YOU'VE got something on the ball!

A memo to the student R. O. T. C. officers: Your \$1.50 tariff to the ball is much to high, especially after socking for your prelude like you did. Then to, your queen choice is not especially popular.

We had better sign off for this time. Until next week remember that the apple polisher often gets the worm.

## The Science Review

By Clyde Cowan

### THE SCIENCE REVIEW

#### Is The Creation of Life And Idle Dream?

"If we are ever able to synthesize virus proteins in the absence of living cells, then we shall have gone a long way toward the synthesis of protoplasm." These are the words of Dr. W. M. Stanley of the Rockefeller Institute of life. The virus proteins have the unique distinction of being able to reproduce or synthesize themselves and, at the same time, of being non-living substances. The big question now is what process do they follow in this reproduction. The virus molecule, large and very complex in comparison with other organic molecules, invades a living cell and attacks its living tissue, breaking it down and forming more molecules of the virus. No one knows as yet how the virus does this.

The possibility arises that these peculiar chemicals may be either the first rung in the ladder of life or may even be the last form of degenerating life. This last view is upheld in part by the observance of parasitic organisms. When plants become parasitic they lose their leaves, when insects become so they no longer grow wings. This degeneration continues until finally the parasite organism has only the feeding and reproducing organs left. Might not these virus proteins be the next step in this degeneration?

At any rate, scientists are now studying this action of the virus molecules in the hope of throwing light on the reproduction of living protoplasm, the synthesis of which will be the first step toward the "creation of life".

Already have research workers found a way to render this disease virus dormant by the use of hydrogen-peroxide, nitrous acid, etc., giving some promise to the human race of future immunity against the so-called virus diseases such as encephalitis, infantile paralysis, parrot fever, yellow fever, and certain types of cancer.

#### The "Thermal Microscope"

Search for synthetic abrasives rivaling the diamond in hardness has led to the development of a new "thermal microscope" which makes possible the observation of crystal formation and change at temperatures as high as 3,632 degrees Fahrenheit. Inability to study the structure of crystals at these temperatures effectively has been a basic handicap in the development of new abrasives. Motion picture attachments are used with the microscope, obtaining a continuous permanent record of the crystallization of such materials as silicon carbide at 2,000 degrees centigrade.

#### The First E. E.?

Electrophorus electricus, the electric eel can produce up to 500 volts at will. A baby eel only eight inches long can produce 110 volts, but it takes "papa eel" to generate the e. m. f. mentioned above.

#### Another Slant on Mars

It was once the fashion to suggest that the ever-curious marks on the planet Mars were due to the activity of some human-like agency; a race of Martion men who had constructed gigantic ditches or canals. Then when the markings were found to change with the Martian seasons, the hypothesis was brought forward that the markings were, perhaps, plant growth. Even the suggestion, however, has its difficulties. During the first part of 1937 the planet

Mars approached the Earth relatively closely. Advantage was taken of this by the scientists at the great Mt. Wilson Observatory of the Carnegie Institution of Washington. These men, by the use of the 100 inch telescope and special photographic plates, found that the atmosphere of Mars contains little if any water vapor, reaching as a maximum five percent of the amount present in our own atmosphere. Thus, the vegetation hypothesis stands in crying need of revamping at present.

M.S.M.

#### THE MAKING OF A MAN!

(Based on a talk by the Commanding Officer of a Naval Training Station to a draft of recruits leaving for the Fleet).

If you want to be respected, you must respect yourself and others.

If you want to hold a responsible position in life twenty years from now, you must start working for that position not five or ten years hence, but now.

If you want the good opinion and not the contempt of others, avoid profane and obscene speech.

If you want to keep your character and reputation above suspicion, keep good company or none.

If you want real happiness, indulge in wholesome recreation only, and refrain from pleasures and keep away from places that are degrading and dangerous.

If you want to know enough to be advanced, study regularly and intelligently.

If you want financial security don't buy on credit but pay as you go and save something every month, starting now.

If you want a reward for hard work, you will find it in assignments to more hard work, for the higher rating the heavier is the responsibility.

If you want to attain success, use as unbreakable rungs in the ladder reaching upward towards it, honesty, obedience, integrity, alertness, neatness, decency, sobriety, and reliability.

If you want guidance in difficulties, seek advice only from your chaplain, division officer, or one in a position to know, and not from an unreliable acquaintance.

M.S.M.

#### LETTERS TO THE FOLKS

One very interesting fact that is impressed on recruits in the navy is, that they should write home often, not once a week but twice or more. They are told that their mothers are their best friend and that father is proud of his boy who

#### BOARD FOR COLLEGE BOYS

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MRS. GRANTS BOARDING HOUSE

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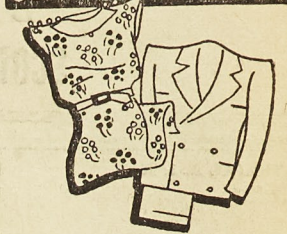
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In suits that have been carefully Cleaned and Pressed. THE MODERN WAY! Our high standards of Cleaning Service will satisfy you completely.

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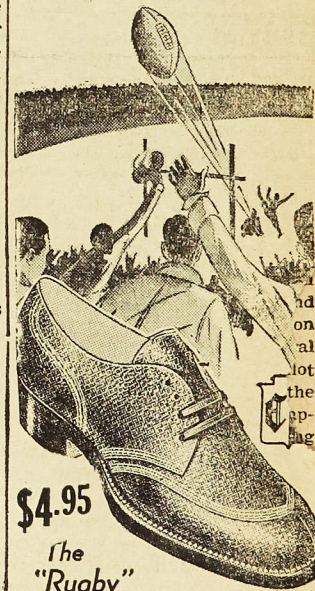
is patriotic enough to serve his country and that they want to hear of his doings and travels while in the Naval Service. Then after they go aboard ship the chaplain reminds them often not to forget the home town folks and their parents.

We think every student attending M.S.M. should do likewise.

M.S.M.

Patronize our advertiser.

## CITY CLUB



\$4.95

The "Rugby"

It's new... swanky... rugged... mannish... exclusive... it's the hit of every campus. Made of football leather! Get your pair today—be first at school to wear them!

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Long Distance Rates Are Cheaper After 7:00 P. M.

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## BOOKS for Next SEMESTER are Now Coming In at SCOTT'S---The MINER'S CO-OP and BOOK EXCHANGE, 8th and Pine

### NATIONAL A. I. M. E. MEETING

Continued from page one

for a noteworthy time.

Of course the school's greatest interest in the meeting lies in the inauguration of Mr. Jackling, and the Miner takes this opportunity to commend him for attaining this signal honor.

—M.S.M.—

Jack: "I wish I were dead.

Sallor: "Can't you marry her—or did you?"

### PHOTOGRAPHIC CLUB EXPLAINS PURPOSE

Continued from page one

about fifteen.

The club was fortunate in securing to very capable men as faculty sponsors, Dr. Cooke and Captain Hodge. Dr. Cooke has done considerable work in photography, and has taught courses in Photomicrography and Spectrography. Capt. Hodge is teaching Aerial Photography at present, and has had considerable practical experience in other types of photography.

These men have helped in organizing the club, and will no doubt be able to teach the boys a lot about photography.

The club has been holding its meetings in the club room. The regular meeting is held the first Friday of each month, with special meetings at various times. The meetings usually include an instructive lecture on some phase of photography. Just recently, through the kind interest of Dr. Chedsey, the club has acquired a room in the Power Plant Building for its headquarters. This room, known

as the "Dark Room", is undergoing extensive cleaning and re-vamping at present. The boys are having quite a job cleaning the walls and ceiling. The room was really a "dark room" before they took charge, but now the dirt and dust is being rapidly removed, and the walls and ceiling are being prepared for a new coat of paint. A sink and work table have been installed in one end of the room. The windows have been painted black to shut out all light from the outside.

The dues of this organization are \$3.00. These dues are to be

used for new equipment. Equipment, including two enlargers, has already been ordered. One a Proxenos, for miniature work, takes film up to 6x6 cm. The other enlarger, a Zeiss, takes film up to 9x12 cm. These two machines will make possible enlargements to any size from negatives ranging upward to 9x12 cm.

The club is planning to subscribe to one or two authoritative magazines dealing with photography. One magazine being considered is the American Photography Magazine. The magazines will be kept in the Library magazine rack.

The club plans to have an exhibit of its work later on in the year. This exhibit should prove very interesting to all the students, since it will probably include a number of campus scenes and activities.

Anyone who is really interested in photography is invited to join the Photographic Club. The dues of \$3.00 are very small compared to the benefits to be derived by members of the organization.

—M.S.M.—

**DR. RAVOLD, '79, TO  
SPEAK HERE, FRIDAY  
AT 11:00 A. M.**

Continued from page one.

work is on viruses, one of the fields in which research is being done most actively today. For years he has been connected with the faculty of the Washington University Medical School, St. Louis, Mo.

Dr. Ravold will tell his experiences here as a student four years after the opening of the School of Mines, and also something of his work with Pasteur.

In the Drawing Department are about eight of the drawings that were made by the students of 1874 to 1878. One of these was made by Dr. Ravold. His name is on it. Two weeks ago Dr. Mann took the drawings in to St. Louis. Dr. Ravold saw his old drawing and wrote on it 61 years after he had made it.

Every student should be out next Friday for this special occasion, and the general public and townspeople are especially urged to come, as Dr. Ravold is probably the oldest living male alumnus.

—M.S.M.—

**ELECTRONICS ENGINEER  
TALKS BEFORE A.I.E.E.**

Continued from page one

mercury pool rectifier is called an ignitron. The photo-electric cell is termed a photron. Another type of rectifier is named the kinetron. Mr. Johntz called attention to the fact that all these words were derived from the word "electron".

A graduate of Kansas State in electrical engineering in 1922, Mr. Johntz has specialized in the field of electronics since the first rudimentary triodes were developed. At the present time he is regarded as quite an authority on the subject of electronics. His work at the present time consists of designing vacuum tubes for special uses in industry.

After the lecture refreshments were served to about fifty students and faculty members.

—M.S.M.—

**HASTE!**

In the old days if a man missed a stage coach he was content to wait two or three days for the next one. Now he lets out a squawk if he misses one section of a revolving door.

—M.S.M.—

An Indian was once asked for his definition of skiing. The answer: "Swoosh!" then walk a mile."

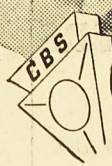
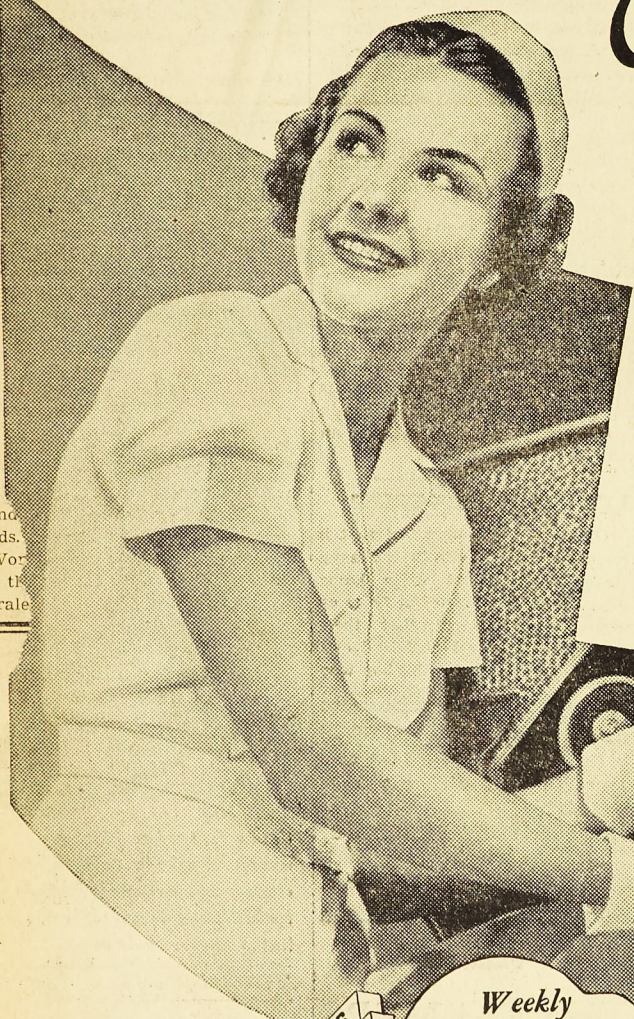
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thing about  
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... shown below ... with its 20  
sensitive fingers "feels" every  
Chesterfield and throws out  
the entire package if one cigarette  
is defective*

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Chesterfield does to give you  
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*You'll find MORE PLEASURE  
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